

3 AUG 2003

10/538355

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION☒ Original☐ Supplemental☐ Substitute

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

[1, 7] NAPHTHYRIDINES AS PDE4 INHIBITORS

the specification of which:

☐ is attached hereto.

☐ was filed on _____ as Application No. _____
(day/month/year)

and, if this box (☐) contains an *

☐ was amended on _____
(day/month/year)

☒ was filed as Patent Cooperation Treaty international Application No.

PCT/EP03/14263 on **15/12/2003**
(day/month/year)

and, if this box (☐) contains an *

☐ entered the national stage in the United States and was accorded Application No. _____

and, if this box (☐) contains an *

☐ was amended, subsequent to entry into the national stage, on _____
(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORITY CLAIMED	
Great Britain	0229281.1	16/12/2002	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

APPLICATION NO.	FILING DATE (day/month/year)
-----------------	---------------------------------

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States Application No.	United States Filing Date (day/month/year)	Status (Pending, Abandoned or U.S. Patent No.)	International Application No. and Filing Date (day/month/year)
----------------------------------	--	--	--

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (☐) contains an x ☒, I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

f. -a
Full name of sole
or first joint inventor

Alastair DENHOLM

Inventor's signature

Alastair Denholm

Date

5.7.2005
(day/month/year)

Residence

Horsham, Great Britain

GBN

Citizenship

citizen of Great Britain
Novartis Pharmaceuticals UK Ltd.

Post Office Address

Patents and Trademarks
Wimblehurst Road
Horsham, West Sussex RH12 5AB
Great Britain

Full name of second
joint inventor, if any

Thomas Hugo KELLER

Inventor's signature

Date

(day/month/year)

Residence

Singapore

Citizenship

citizen of Switzerland

Post Office Address

Novartis Institute for Tropical Diseases
1 Science Park Road
04-14 The Capricorn, Science Park II
Singapore 117528

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third
joint inventor, if any Clive MCCARTHY

Inventor's signature _____ Date _____
(day/month/year)

Residence 4056 Basel, Switzerland

Citizenship citizen of Great Britain

Post Office Address Lichtstrasse 35
4056 Basel
Switzerland

Full name of fourth
joint inventor, if any Neil John PRESS

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain

Citizenship citizen of Great Britain

Post Office Address Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

Full name of fifth
joint inventor, if any Roger John TAYLOR

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain

Citizenship citizen of Great Britain

Post Office Address Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

03 AUG 2005

43355

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION☒ Original☐ Supplemental☐ Substitute

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

1, 7 NAPHTHYRIDINES AS PDE4 INHIBITORS

the specification of which:

☐ is attached hereto.

☐ was filed on _____ as Application No. _____
(day/month/year)

and, if this box (☐) contains an *

☐ was amended on _____
(day/month/year)

☒ was filed as Patent Cooperation Treaty international Application No.

PCT/EP03/14263 on 15/12/2003
(day/month/year)

and, if this box (☐) contains an *

☐ entered the national stage in the United States and was accorded Application No. _____

and, if this box (☐) contains an *

☐ was amended, subsequent to entry into the national stage, on _____
(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORITY CLAIMED	
Great Britain	0229281.1	16/12/2002	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

APPLICATION NO.	FILING DATE (day/month/year)
-----------------	---------------------------------

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States Application No.	United States Filing Date (day/month/year)	Status (Pending, Abandoned or U.S. Patent No.)	International Application No. and Filing Date (day/month/year)
----------------------------------	--	--	--

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (☐) contains an x ☒, I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole
or first joint inventor Alastair DENHOLM

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain

Citizenship citizen of Great Britain

Post Office Address Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB
Great Britain

Full name of second
joint inventor, if any Thomas Hugo KELLER

2. nd Inventor's signature Thomas Hugo Keller Date 7. June 2005
(day/month/year)

Residence Singapore SGX

Citizenship citizen of Switzerland

Post Office Address 23 Jalan Merah Saga
The Merasaga 06-01, Singapore 278102
Singapore

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third
joint inventor, if any Clive MCCARTHY

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain
Citizenship citizen of Great Britain
Post Office Address Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

Full name of fourth
joint inventor, if any Neil John PRESS

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain
Citizenship citizen of Great Britain
Post Office Address Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

Full name of fifth
joint inventor, if any Roger John TAYLOR

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain
Citizenship citizen of Great Britain
Post Office Address Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

2003

35

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

☒ Original ☐ Supplemental ☐ Substitute

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

1, 7 NAPHTHYRIDINES AS PDE4 INHIBITORS

the specification of which:

☐ is attached hereto.

☐ was filed on _____ as Application No. _____
(day/month/year)

and, if this box (☐) contains an *

☐ was amended on _____
(day/month/year)

☒ was filed as Patent Cooperation Treaty international Application No.

PCT/EP03/14263 on 15/12/2003
(day/month/year)

and, if this box (☐) contains an *

☐ entered the national stage in the United States and was accorded Application No. _____

and, if this box (☐) contains an *

☐ was amended, subsequent to entry into the national stage, on _____
(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORITY CLAIMED	
Great Britain	0229281.1	16/12/2002	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

APPLICATION NO.	FILING DATE (day/month/year)
-----------------	---------------------------------

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States Application No.	United States Filing Date (day/month/year)	Status (Pending, Abandoned or U.S. Patent No.)	International Application No. and Filing Date (day/month/year)
----------------------------------	--	--	--

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (☐) contains an x ☒, I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole
or first joint inventor Alastair DENHOLM

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain
Citizenship citizen of Great Britain
Post Office Address Novartis Pharmaceuticals UK Ltd.
Patents and Trademarks
Wimblehurst Road
Horsham, West Sussex RH12 5AB
Great Britain

Full name of second
joint inventor, if any Thomas Hugo KELLER

Inventor's signature _____ Date _____
(day/month/year)

Residence Singapore
Citizenship citizen of Switzerland
Post Office Address Novartis Institute for Tropical Diseases
1 Science Park Road
04-14 The Capricorn, Science Park II
Singapore 117528

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Clive MCCARTHY

Shirley M. Kelly

26/07/2005

(day/month/year)

4056 Basel, Switzerland *CTH*

citizen of Great Britain

Lichtstrasse 35
4056 Basel
Switzerland

Neil John PRESS

Date _____

(day/month/year)

Horsham, Great Britain

citizen of Great Britain

Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

Roger John TAYLOR

Date _____

(day/month/year)

Horsham, Great Britain

citizen of Great Britain

Novartis Horsham Research Centre
Wimblehurst Road
Horsham, West Sussex RH12 5AB Great
Britain

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION☒ Original☐ Supplemental☐ Substitute

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

[1, 7] NAPHTHYRIDINES AS PDE4 INHIBITORS

the specification of which:

☐ is attached hereto.

☐ was filed on _____ as Application No. _____
(day/month/year)

and, if this box (☐) contains an *

☐ was amended on _____
(day/month/year)

☒ was filed as Patent Cooperation Treaty international Application No.

PCT/EP03/14263 on 15/12/2003
(day/month/year)

and, if this box (☐) contains an *

☐ entered the national stage in the United States and was accorded Application No. _____

and, if this box (☐) contains an *

☐ was amended, subsequent to entry into the national stage, on _____
(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORITY CLAIMED	
Great Britain	0229281.1	16/12/2002	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

APPLICATION NO.	FILING DATE (day/month/year)
-----------------	---------------------------------

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States Application No.	United States Filing Date (day/month/year)	Status (Pending, Abandoned or U.S. Patent No.)	International Application No. and Filing Date (day/month/year)
----------------------------------	--	--	--

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (☐) contains an x ☒, I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first joint inventor **Alastair DENHOLM**

Inventor's signature _____ Date _____
(day/month/year)

Residence Horsham, Great Britain

Citizenship	citizen of Great Britain Novartis Pharmaceuticals UK Ltd.
-------------	--

Patents and Trademarks
Wimblehurst Road
Horsham, West Sussex RH12 5AB
Great Britain

Full name of second joint inventor, if any Thomas Hugo KELLER

Inventor's signature _____ Date _____
(day/month/year)

Residence Singapore

Citizenship	citizen of Switzerland
-------------	------------------------

Post Office Address **Novartis Institute for Tropical Diseases**
1 Science Park Road
04-14 The Capricorn, Science Park II
Singapore 117528

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third
joint inventor, if any Clive MCCARTHY

Inventor's signature _____ Date _____
(day/month/year)

Residence 4056 Basel, Switzerland

Citizenship citizen of Great Britain

Post Office Address Lichtstrasse 35
4056 Basel
Switzerland

Full name of fourth
joint inventor, if any Neil John PRESS

Inventor's signature Neil John Press Date 5th July 2005
(day/month/year)

Residence Horsham, Great Britain GB N

Citizenship citizen of Great Britain
Novartis Horsham Research Centre

Post Office Address Wimblerhurst Road
Horsham, West Sussex RH12 5AB Great
Britain

Full name of fifth
joint inventor, if any Roger John TAYLOR

Inventor's signature Roger John Taylor Date 5th July 2005
(day/month/year)

Residence Horsham, Great Britain GB N

Citizenship citizen of Great Britain
Novartis Horsham Research Centre

Post Office Address Wimblerhurst Road
Horsham, West Sussex RH12 5AB Great
Britain